AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-19. (Cancelled)

20. (Previously Presented) A device for optically scanning a medium, said device comprising:

deflection mirror means including a deflection surface adapted to deflect light beams incident thereon and having a normal extending rectangularly to said deflection surface,

drive means coupled to the deflection mirror means for rotating the deflection mirror means about an axis of rotation, the surface normal being angularly tilted relative to the axis of rotation,

said deflection mirror means being located in a bearing-mounted fitting and provided with at least one compensation mass means adapted to compensate for imbalances during rotation so that the axis of rotation coincides with a principal axis of inertia of a combination consisting of the deflection mirror means and the fitting, wherein the position of the compensation mass means relative to the deflection mirror means can be adjusted, the deflection mirror means can be pivoted about a pivot axis perpendicular to the axis of rotation, and the compensation mass means is pivotable relative to the deflection mirror means about the pivot axis of the deflection mirror means, and

means for adjusting the angular tilt between the axis of rotation and the mirror normal.

21. (Previously Presented) A device according to claim 20, wherein the scanning medium is selected from the group consisting of a fluid medium, three dimensional objects and surfaces.

22. (Previously Presented) A device according to claim 20, wherein the deflection mirror means deflects the light beams to a receiving system said receiving system comprising a telescope and a detector.

23. (Previously Presented) The device according to claim 20, wherein the light beams come from a laser light source.

24. (Previously Presented) The device according to claim 20, wherein the incident light is sunlight.

25. (Previously Presented) The device according to claim 21, wherein the incident light is emitted by surfaces.

26. (Cancelled)

27. (Previously Presented) The device according to claim 20, wherein said means for adjusting the angle between the axis of rotation and the mirror normal includes a tilting shaft coupled to a second drive unit.

28 -29. (Cancelled)

30. (Currently Amended) The device of ~~claim 29~~ claim 20 comprising a common drive unit for pivoting both said deflection mirror means and said compensation mass means about said common pivot axis.

31. (Currently Amended) The device of ~~claim 28~~claim 20, wherein the compensation mass means is a ring shaped element which surrounds the deflection mirror means.

32 -38. (Cancelled)